

Enrichmentors



Purpose

The purpose of the section is to help you learn how to identify and extract meaningful features from the data to become a Successful Artificial Intelligence (AI) Engineer

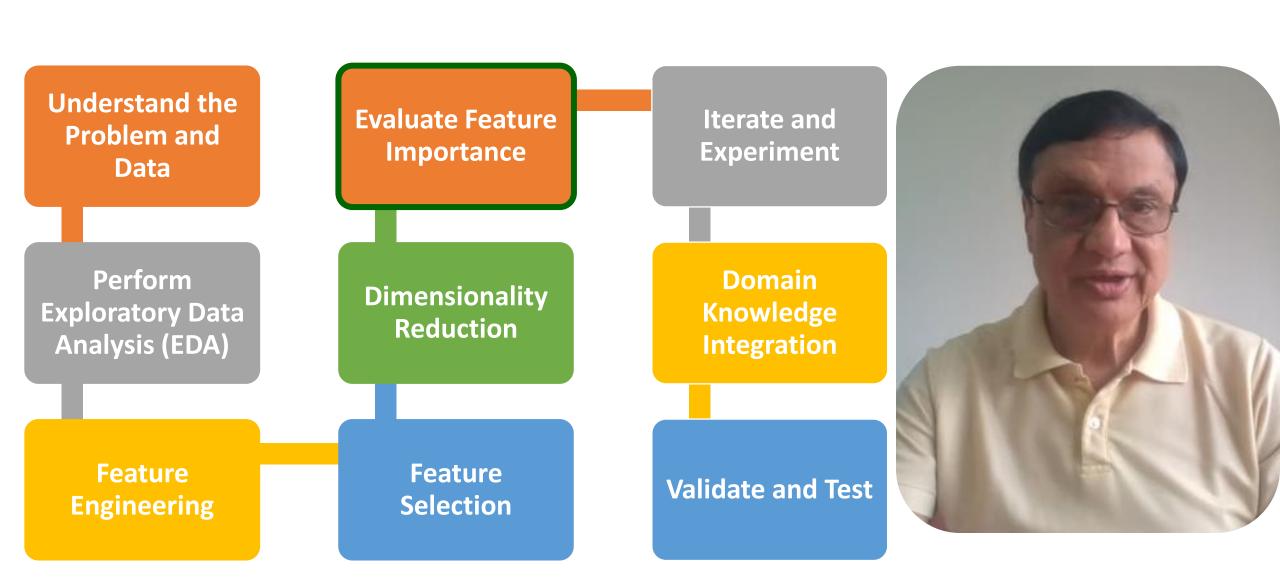
At the end of this lecture, you will learn the following

Remaining steps of feature engineering





Then, Evaluate Feature Importance



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Evaluate Feature Importance-How

Assess the importance of features in predicting the target variable

Analyze how different features contribute the model's predictions

Identify the most influential features

Model-specific techniques

Feature importance scores



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Feature Importance

Evaluation

Iterate and experiment

Understand the Problem and Data

Perform
Exploratory Data
Analysis (EDA)

Feature Engineering

Evaluate Feature Importance

Dimensionality Reduction

Feature Selection

Iterate and Experiment

Domain Knowledge Integration

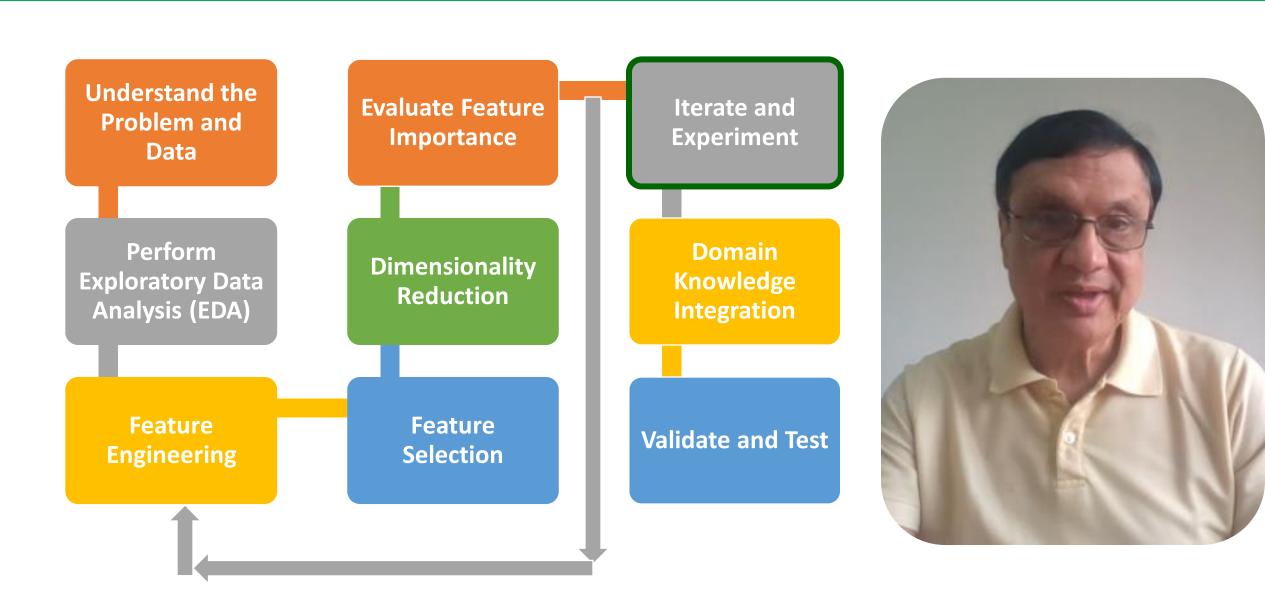
Validate and Test



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How to Iterate and experiment





Integrate Domain Knowledge

Understand the Problem and Data

Perform
Exploratory Data
Analysis (EDA)

Feature Engineering

Evaluate Feature Importance

Dimensionality Reduction

Feature Selection

Iterate and Experiment

Domain Knowledge Integration

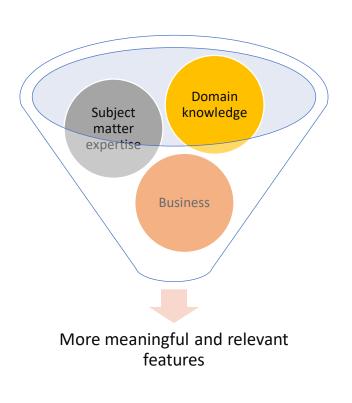
Validate and Test

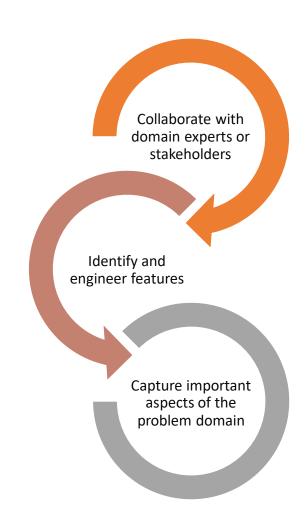


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Integrate Domain Knowledge-How?









Finally Validate and Test

Understand the Problem and Data

Perform Exploratory Data Analysis (EDA)

Feature Engineering

Evaluate Feature Importance

Dimensionality Reduction

Feature Selection

Iterate and Experiment

Domain Knowledge Integration

Validate and Test



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How to Validate and Test

Validate

Test

Effectiveness of the engineered features

Cross-validation techniques or holdout sets

Ensure that they generalize well to unseen data

Final feature set

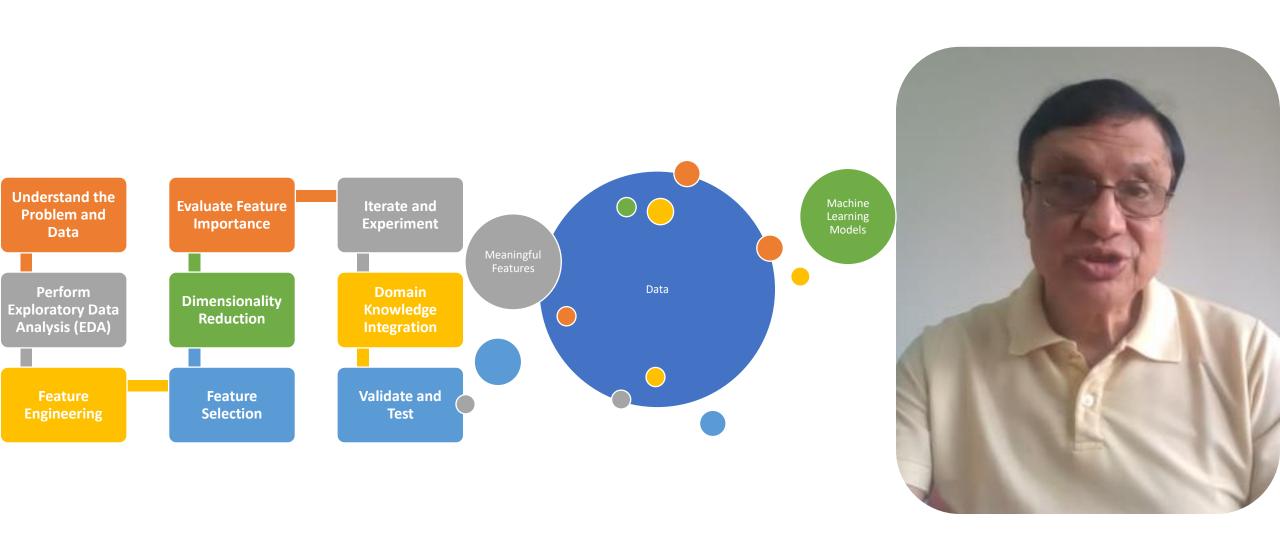
On a separate test set

Evaluate its performance in a real-world scenario



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Overview





What is next?

An example of how to identify and extract meaningful features from the data





Growing through Excellence over 40 years to become Best in Management



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